**Supplementary Digital Content 9**

**Editable version of the YBHRQL Questionnaire**

(This document is supplementary to the paper by Summerfield, Kitterick, and Goman entitled ‘Development and critical evaluation of a condition-specific preference-based measure sensitive to binaural hearing in adults: the York Binaural Hearing-related Quality of Life System’.)

The next page contains the YBHRQL questionnaire. The emboldened part of the preamble in the first box (which currently reads “when using your two cochlear implants together”) may be edited to describe the listening condition relevant to the application to which the questionnaire is to be put.

Date:

P/N:

By placing a tick in one box under each heading below, please indicate which statement best describes your own hearing **when using your two cochlear implants together.**

Please do not tick more than one box under each heading.

**Understanding speech when there is background noise**

1. When a friend speaks to you while the TV is on or other people are chatting in the same room, you can hear your friend speaking easily, usually picking up all of the words they say.

* **EEffort and Fatigue**
  + **Not tired:** “You have to concentrate a little when you are trying to hear something or someone. You can hear what people are saying with only a little effort. By the end of the day, you are not mentally or physically tired because of your hearing.”
  + **Moderately tired: “**You have to concentrate quite hard when you are trying to hear something or someone. You have to put in some effort to hear what people are saying. By the end of the day, you are moderately mentally and physically tired because of your hearing.”
  + **Extremely tired: “**You have to concentrate very hard when you are trying to hear something or someone. You have to put in a great deal of effort to hear what people are saying. By the end of the day, you are extremely mentally and physically tired because of your hearing.”
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2. Between 1 and 3.

3. When a friend speaks to you while the TV is on or other people are chatting in the same room, you can hear your friend speaking, but you can only pick out some of the words they say. This can lead to confusion if you miss an important word. Sometimes you need them to repeat themselves or to turn the volume down for you to understand them.

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  + **Not tired:** “You have to concentrate a little when you are trying to hear something or someone. You can hear what people are saying with only a little effort. By the end of the day, you are not mentally or physically tired because of your hearing.”
  + **Moderately tired: “**You have to concentrate quite hard when you are trying to hear something or someone. You have to put in some effort to hear what people are saying. By the end of the day, you are moderately mentally and physically tired because of your hearing.”
  + **Extremely tired: “**You have to concentrate very hard when you are trying to hear something or someone. You have to put in a great deal of effort to hear what people are saying. By the end of the day, you are extremely mentally and physically tired because of your hearing.”

4. Between 3 and 5.

5. When a friend speaks to you while the TV is on or other people are chatting in the same room, you find it very difficult to hear your friend speaking. You are usually unable to pick out the words they say. This regularly leads to misunderstanding and confusion. The room needs to be completely quiet for you to understand them.

* 

**Working out where sounds are coming from**

1. You can work out where sounds are coming from accurately. You can point to where a sound is coming from easily.

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2. Between 1 and 3.

3. You have some difficulty working out where sounds are coming from. You can usually tell if a sound is coming from the right- or left-hand side, but you cannot be more accurate than that. As a result, you are not always sure who is speaking when you are in a group with several people.

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4. Between 3 and 5.

5. You have great difficulty working out where sounds are coming from. You cannot even tell if a sound is coming from the right- or left-hand side without looking around. As a result, you find it very difficult to tell who is speaking when you are in a group with several people. You are also worried about your safety outdoors because of your difficulty working out where sounds are coming from.

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**Effort and fatigue**

1. You have to concentrate a little when you are trying to hear something or someone. You can hear what people are saying with only a little effort. By the end of the day, you are **not** mentally or physically tired because of your hearing.

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3. You have to concentrate quite hard when you are trying to hear something or someone. You have to put in some effort to hear what people are saying. By the end of the day, you are moderately mentally and physically tired because of your hearing.

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4. Between 3 and 5.

5. You have to concentrate very hard when you are trying to hear something or someone. You have to put in a great deal of effort to hear what people are saying. By the end of the day, you are extremely mentally and physically tired because of your hearing.

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